

TITLE: DIRECT Submission
 JOURNAL: Unpublished
 REFERENCE: 2 (bases 1 to 186653)
 AUTHORS: Worley, R.C.
 TITLE: Direct Submission
 JOURNAL: Submitted (29-MAY-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77040, USA
 AUTHOR: Worley, R.C.
 COMMENT: (bases 1 to 18653)
 Direct Submission
 on Jul 18, 2002 this sequence version replaced 91:1249271.
 Center: Baylor College of Medicine
 Center code: BWM
 web sites: <http://www.bcm.edu/bm/seq/seq.html>
 Contact: bsgs@bcm.edu
 Project Information
 Center clone name: CH20-122F14
 Summary Statistics
 Sequencing vector: plasmid;
 Chemistry: type terminator Big Dye; 100% of reads
 Assembly program: phrap; version 0.990329
 Consensus quality: 129877 bases at least 0.40
 Consensus quality: 13213 bases at least 0.50
 Consensus quality: 141956 bases at least 0.20

 * NOTE: estimated insert size may differ from sequence length
 * (see http://www.bcm.edu/bm/seq/seq.html)
 * NOTE: This is a working draft sequence. It currently
 * consists of 66 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 * 1095: contig of 1095 bp in length
 * 1196: gap of unknown length
 * 2209: contig of 1012 bp in length
 * 2407: gap of unknown length
 * 2308: contig of 1185 bp in length
 * 3493: 4592: gap of unknown length
 * 4593: 4680: contig of 1088 bp in length
 * 4681: 4780: gap of unknown length
 * 4781: 6298: contig of 1518 bp in length
 * 6299: 6398: gap of unknown length
 * 6399: 7792: contig of 1394 bp in length
 * 7791: 7892: gap of unknown length
 * 7893: 9857: contig of 1965 bp in length
 * 9858: 9957: gap of unknown length
 * 9958: 1166: contig of 1409 bp in length
 * 11467: 11468: gap of unknown length
 * 11467: 12793: contig of 1327 bp in length
 * 12794: 12893: gap of unknown length
 * 12894: 14385: contig of 1492 bp in length
 * 14385: 14486: gap of unknown length
 * 14486: 15552: contig of 1067 bp in length
 * 15553: 15652: gap of unknown length
 * 15653: 17523: contig of 1871 bp in length
 * 17524: 17623: gap of unknown length
 * 17624: 19242: contig of 1619 bp in length
 * 19243: 19442: gap of unknown length
 * 19344: 20706: contig of 1364 bp in length
 * 20707: 20806: gap of unknown length
 * 20807: 22586: contig of 1780 bp in length
 * 22587: 22686: gap of unknown length
 * 22687: 24952: contig of 2265 bp in length
 * 24953: 25052: gap of unknown length

* 25053: 27091: contig of 2039 bp in length
 * 27092: 27191: gap of unknown length
 * 27192: 29146: contig of 1955 bp in length
 * 29147: 29246: gap of unknown length
 * 29247: 30531: contig of 1285 bp in length
 * 30532: 30632: gap of unknown length
 * 32232: 32332: gap of unknown length
 * 32333: 33819: contig of 1437 bp in length
 * 33820: 33919: gap of unknown length
 * 33920: 36104: contig of 2185 bp in length
 * 36204: 36205: gap of unknown length
 * 37499: 37599: gap of unknown length
 * 37500: 37599: gap of unknown length
 * 37600: 39487: contig of 1867 bp in length
 * 39586: 39587: gap of unknown length
 * 41679: 41680: contig of 2183 bp in length
 * 41779: gap of unknown length
 * 41880: 41881: contig of 1788 bp in length
 * 43568: 43667: gap of unknown length
 * 43668: 46253: contig of 2586 bp in length
 * 46254: 46353: gap of unknown length
 * 46354: 46355: contig of 2428 bp in length
 * 46355: 48581: contig of 2428 bp in length
 * 48582: 48682: gap of unknown length
 * 50072: 50073: contig of 1391 bp in length
 * 50173: 50174: gap of unknown length
 * 50174: 51551: contig of 1378 bp in length
 * 51551: 51651: gap of unknown length
 * 51651: 53292: contig of 1442 bp in length
 * 53293: 53293: gap of unknown length
 * 53393: 54985: contig of 1593 bp in length
 * 54986: 55085: gap of unknown length
 * 55086: 56386: contig of 1941 bp in length
 * 56386: 56987: contig of 1378 bp in length
 * 56987: 57038: contig of 2148 bp in length
 * 57038: 57087: gap of unknown length
 * 57087: 59335: contig of 1835 bp in length
 * 59335: 61169: gap of unknown length
 * 61170: 61170: gap of 2600 bp in length
 * 61270: 63869: contig of 2600 bp in length
 * 63870: 63969: gap of unknown length
 * 63970: 65838: contig of 1869 bp in length
 * 65839: 65939: gap of unknown length
 * 65939: 67732: gap of unknown length
 * 67732: 67831: gap of unknown length
 * 67832: 67832: contig of 2177 bp in length
 * 67832: 70206: contig of 2177 bp in length
 * 70206: 70305: contig of 2177 bp in length
 * 70305: 72625: contig of 2430 bp in length
 * 72625: 72725: gap of unknown length
 * 72725: 76701: contig of 3976 bp in length
 * 76701: 76702: gap of unknown length
 * 76702: 76802: contig of 2145 bp in length
 * 76802: 779346: contig of unknown length
 * 779346: 79347: gap of unknown length
 * 79347: 79447: contig of 3084 bp in length
 * 79447: 82531: contig of 3084 bp in length
 * 82531: 82630: gap of unknown length
 * 82630: 82531: contig of 2752 bp in length
 * 82531: 85383: gap of unknown length
 * 85383: 85482: contig of 2177 bp in length
 * 85482: 87759: gap of unknown length
 * 87759: 87760: contig of 3107 bp in length
 * 87760: 90866: contig of 3107 bp in length
 * 90866: 90867: gap of unknown length
 * 90867: 90967: contig of 3547 bp in length
 * 90967: 94514: gap of unknown length
 * 94514: 94613: gap of unknown length
 * 94614: 96947: contig of 2334 bp in length
 * 96947: 96948: gap of unknown length
 * 96948: 97048: contig of 2034 bp in length
 * 97048: 99687: contig of 3422 bp in length
 * 99687: 99788: gap of unknown length
 * 99788: 102905: contig of 3118 bp in length
 * 102905: 103006: gap of unknown length
 * 103006: 106489: contig of 3484 bp in length
 * 106489: 106589: gap of unknown length
 * 106589: 106590: contig of 3422 bp in length
 * 106590: 110011: contig of 3422 bp in length
 * 110011: 11367: contig of 3196 bp in length
 * 11367: 11367: contig of 3196 bp in length

Query Match	1	CCTCCGCAANTCAATTAGTTCTC	26	81.5%	Score 21.2; DB 2; Length 186653,
Best Local Similarity	88.5%	Freq. No. 35,	30)	as <u>miss</u>es and <u>repeats</u>, <u>AT</u> regions were covered by sequence	
Matches	23;	Conservative	0;	from more than one subsection; and the assembly was confirmed by	
Source				restriction digest.	
ORGANISM					
Homo sapiens.					
Homo sapiens.					
Mammalia: Eutheria: Primates: Catarrhini: Hominidae: Homo.					
Mukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:					
1 (bases 1 to 100987)					
Sulston, J. E. and Waterston, R.					
Toward a complete human genome sequence					
Genome Res. 8 (11), 1097-1108 (1998)					
MO. For additional information about the map position of this					
sequence, see http://genome.wustl.edu/qsc					
PUBLISHED	984/074				
REFERENCE	2 (bases 1 to 100987)				
Wang, C., Haqlund, K. and Koziolowitz, A.					
The sequence of Homo sapiens BAC clone RP11-45517					
unpublished (2001)					
3 (bases 1 to 100987)					
Waterston, R.H.					
Direct Submission					
Submitted (15-FEB-2002) Genome Sequencing Center, Washington					
University School of Medicine, 4444 Forest Park Parkway, St. Louis,					
MO 63108, USA					
4 (bases 1 to 100987)					
Waterston, R.H.					
Direct Submission					
Submitted (16-FEB-2002) Genome Sequencing Center, Washington					
University School of Medicine, 4444 Forest Park Parkway, St. Louis,					
MO 63108, USA					
5 (bases 1 to 100987)					
Waterston, R.H.					
Direct Submission					
Submitted (24-FEB-2002) Genome Sequencing Center, Washington					
University School of Medicine, 4444 Forest Park Parkway, St. Louis,					
MO 63108, USA					
6 (bases 1 to 100987)					
Waterston, R.					
Direct Submission					
Submitted (04-MAR-2002) Department of Genetics, Washington					
University, 444 Forest Park Avenue, St. Louis, Missouri 63108, USA					
On Feb 24, 2002 this sequence version replaced gi:18677616.					
Center: Washington University Genome Sequencing Center					
Center code: WUGSC					
Web site: http://genome.wustl.edu					
Contact: sapiens@watson.wustl.edu					

Comment	Summary Statistics				
Center project name: W_H_NH0455107					

Drafting Center: WHR					

NOTICE:	This sequence may not represent the entire insert of this				
CLONE.	It may be shorter because we only sequence overlapping				
clone sections once, or longer because we provide a small overlap					
between neighbouring data submissions.					
This sequence was finished as follows unless otherwise noted:					

Campobasso, A., Castle, A., Chueh-Pei, M., Cujancaru, M., Collins, S.,
 Cottam, A., Crone, P., Hartmann, R., Nowar, K., Niay, J., S.
 Dodge, S., Domine, M., Doyle, M., Fitch, W., Gage, D.,
 Galagan, J., Gardyne, S., Ginde, S., Goyette, M., Graham, L.,
 Grand-Pierre, N., Grant, G., Hados, B., Bradford, A., Horton, L.,
 Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kain, L., Karatas, A.,
 Klear, T., Larey, K., Lamartiniere, C., Landers, T., Lechene, J.,
 Levine, R., Li, C., Liu, C., Lockett, K., McDonald, P., Marquis, N.,
 McCarthy, M., McEwan, F., McGehee, A., McGehee, K., McPhee, E.,
 Meldrum, J., Menous, L., Mihova, T., Miranda, C., Milana, V., Morrow, J.,
 Murphy, T., Naar, T., Neimark, H., Nierman, W., O'Neil, T., O'Donnell, F.,
 Pisani, C., Pollara, V., Raymond, C., Riley, K., Ross, P., Rothman, D.,
 Roy, A., Santos, R., Schaefer, S., Severy, P., Spencer, B.,
 Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, T.,
 Testayre, S., Theodore, T., Tirrell, M., Travers, M., Trujillo, T.,
 Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Yee, W. J.,
 Young, G., Zainoun, J., Zimmer, A., and Zody, M.
 direct submission
 Submitted (18-JUN-2003) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Oct 4, 2000 this sequence version replaced qid:8571742.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RPM/RepeatMasker.html>
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center project name: 110444
 Center clone name: 521_C6
 ----- Summary Statistics
 Sequencing vector: M13; M7815; 100% of reads
 Chemistry: dye terminator Big Dye; 100% of reads
 Assembly program: Phrap, version 0.960731
 Consensus quality: 157250 bases at least 040
 Consensus quality: 162563 bases at least 030
 Insert size: 16523; sum-of-contigs
 Quality coverage: 4.3 in 920 bases; sum-of-contigs
 as soon as it is available and the accession number will
 be preserved.
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 21 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sites of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 be preserved.
 * 586: contig of 586 bp in length
 * 687: 1860: gap of 100 bp
 * 1861: 1960: gap of 100 bp
 * 1961: 3559: contig of 1599 bp in length
 * 3560: 3659: gap of 100 bp
 * 3660: 38851: contig of 28192 bp in length
 * 38152: 31951: gap of 100 bp
 * 31952: 33013: contig of 1062 bp in length
 * 33014: 33113: gap of 100 bp
 * 33114: 35199: contig of 2086 bp in length
 * 35200: 35299: gap of 100 bp
 * 35300: 38384: contig of 3085 bp in length
 * 38385: 38484: gap of 100 bp
 * 38485: 43409: contig of 4925 bp in length
 * 43410: 43509: gap of 100 bp
 * 43510: 43823: contig of 4764 bp in length
 * 48374: 535158: contig of 4785 bp in length
 * 53159: 53258: gap of 100 bp
 * 53259: 60666: contig of 7408 bp in length
 * 60667: 60766: gap of 100 bp

Search completed: January 14, 2003, 14:08:57
Job time : 325.313 secs

Query Match	Match	Start (local)	Similarity	Score	DB	Length	bp
43103	43102;	gap or	949 bp	contig of	949 bp	in length	
44052	44151;	gap ot	100 bp				
44152	45059;	contig of	948 bp	in length			
45090	45189;	gap ot	100 bp				
45190	45135;	contig of	946 bp	in length			
46116	46235;	gap ot	100 bp				
46236	47168;	contig of	934 bp	in length			
47169	47268;	gap ot	100 bp				
47269	48208;	contig of	940 bp	in length			
48209	48308;	gap ot	100 bp				
48309	49276;	contig of	968 bp	in length			
49277	49376;	gap ot	100 bp				
49377	50334;	contig of	958 bp	in length			
50445	50434;	gap ot	100 bp				
50446	51416;	contig of	882 bp	in length			
51317	51416;	gap ot	100 bp				
51417	52439;	contig of	976 bp	in length			
52439	52492;	gap ot	100 bp				
52493	53398;	contig of	906 bp	in length			
53499	53498;	gap ot	100 bp				
54499	54499;	contig of	961 bp	in length			
54460	54551;	gap ot	100 bp				
54560	55516;	contig of	957 bp	in length			
55517	55616;	gap ot	100 bp				
55617	55675;	contig of	959 bp	in length			
56576	56676;	gap ot	100 bp				
56676	57638;	contig of	963 bp	in length			
57639	57740;	gap ot	100 bp				
57749	58708;	contig of	968 bp	in length			
58807	58806;	gap ot	100 bp				
58807	59737;	contig of	992 bp	in length			
59748	59831;	gap ot	100 bp				
59848	60776;	contig of	939 bp	in length			
60777	60876;	gap ot	100 bp				
60877	61862;	contig of	986 bp	in length			
61863	61962;	gap ot	100 bp				
61963	62954;	contig of	952 bp	in length			
62955	63054;	gap ot	100 bp				
63055	64051;	contig of	955 bp	in length			
64052	65053;	contig of	952 bp	in length			
65052	65103;	gap ot	100 bp				
65104	66057;	contig of	954 bp	in length			
66058	66157;	gap ot	100 bp				
66158	67112;	contig of	897 bp	in length			
67113	67212;	gap ot	100 bp				
67213	68161;	contig of	964 bp	in length			
68177	68276;	gap ot	100 bp				
68277	69207;	contig of	931 bp	in length			
69208	69307;	gap ot	100 bp				
70204	70304;	gap ot	100 bp				
70404	71355;	contig of	932 bp	in length			
71236	71355;	gap ot	100 bp				
71336	72289;	contig of	954 bp	in length			
72290	72489;	gap ot	100 bp				
72490	73363;	contig of	974 bp	in length			
73464	73461;	gap ot	100 bp				
74457	74556;	contig of	993 bp	in length			
74557	75542;	contig of	936 bp	in length			
75543	75592;	gap ot	100 bp				
75593	76525;	contig of	933 bp	in length			